INTERNATIONAL SEARCH REPORT

International application No.

			PCT/US02/40641	ļ
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06K 9/00, 9/36; H05G 1/60; G09B 19/00; G06T 15/00, 17/00; G09G 5/00; G06F 19/00 US CL : 382/128, 131, 276, 285, 291; 378/4, 21, 22; 600/425; 434/272, 257; 345/419, 420, 621, 622; 700/98 According to International Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 382/128, 131, 276, 285, 291; 378/4, 21, 22; 600/425; 434/272, 257; 345/419, 420, 621, 622; 700/98				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap			Relevant to claim No.
Х	US 5,920,319 A (VINING ET AL.) 06 July 1999 (06	i.07.1999),	the whole document.	1-12
x	US 5,782,762 A (VINING) 21 July 1998 (21.07.1998), the whole document.			1-12
х	WO 9832371 A1 (JOHNSON ET AL.) 30 July 1998 (30.07.1998), the whole document.			1-12
х	US 5,971,767 A (KAUFMAN ET AL.) 26 October 1999 (26.10.1999), the whole document.			1-12
A	US 5,728,044 A (SHAN) 17 March 1998 (17.03.1998), the whole document.			1-12
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Further documents are listed in the continuation of Box C.			See patent family annex.	
Special categories of cited documents: "T"			later document published after the inte	
"A" document defining the general state of the art which is not considered to be of particular relevance		"X"	date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"E" earlier application or patent published on or after the international filing date		٨	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		«Y»	considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
			being obvious to a person skilled in th	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family		
Date of the actual completion of the international search 19 April 2003 (19.04.2003)		Date of mailing of the international search report		
Name and mailing address of the ISA/US			officer	
			Nakhjavan	
Washington, D.C. 20231				
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